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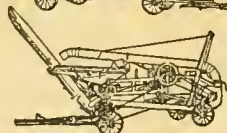
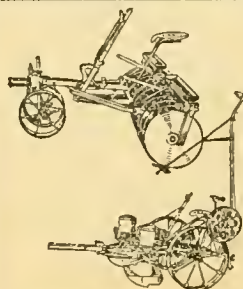
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OF AMERICA

KEYSTONE

TILLAGE IMPLEMENTS





IHC LINE

GRAIN MACHINES

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HEADERS
REAPERS
HEADER-BINDERS

HAY MACHINES

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HAY PRESSES
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STACKERS
TEDDERS
SIDE DELIVERY RAKES
COMBINED SWEEP RAKES
AND STACKERS

CORN MACHINES

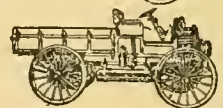
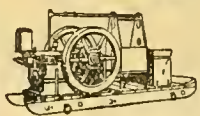
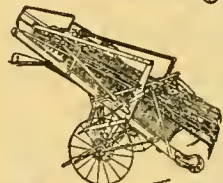
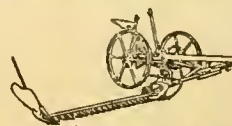
PLANTERS
PICKERS
BINDERS
ENSILAGE CUTTERS
CORNSTALK RAKES
STALK CUTTERS
SHELLERS
CULTIVATORS
HUSKERS AND SHREDDERS

TILLAGE

DISK HARROWS
CULTIVATORS
SPRING-TOOTH HARROWS
PEG-TOOTH HARROWS
COMBINATION HARROWS

GENERAL LINE

MOTOR TRUCKS
FEED GRINDERS
KNIFE GRINDERS
BINDER TWINE
THRESHERS
STONE BURR MILLS
GRAIN DRILLS
CREAM SEPARATORS
OIL AND GAS ENGINES
MANURE SPREADERS
FERTILIZER SOWERS
OIL TRACTORS
FARM WAGONS AND TRUCKS.





KEYSTONE TILLAGE IMPLEMENTS

International Harvester Company of America
(Incorporated)

CHICAGO U S A





USES FOR THE DISK HARROW

The farmer who thoroughly understands all uses of the disk harrow has the secret of successful seed bed preparation. There is no farm tool which can turn as much profit if used to its fullest possibilities.

If a farmer desires to fall plow, following the binder with the disk harrow is the best thing he can do. The mulch which is formed by the disking prevents undue evaporation from the surface and permits the moisture from below to soften the ground so that plowing is made easy. The ground turns over in a mellow condition instead of dry, hard clods, as is true in dry falls when disking is not done after the binder.

Disking, before and after plowing in the spring, enables the farmer to make a compact seed bed in much less time than when plowing without previous disking. This is of special value in late springs.

Chopping up cornstalk ground with the disk harrow leaves the ground in such condition, in those territories where deep freezing takes place in the winter, that it is unnecessary to plow for the small grains, such as oats, etc.

Farmers can also use the disk harrow in the spring of the year for leveling ruts in roads after they have thawed out. The use of the harrow is especially beneficial in low places where deep gullies have been worn by wheels in traveling through the ground when the mud is deep.

Farmers in localities where the snow forms a heavy crust can use the disk harrow to break up the crust so that the sheep can graze.

The disk harrow may also be used to disk along the side of roads to kill weeds.

The principle of the conservation of moisture underlies the secret of successful crop growing. Moisture can be conserved better by the use of the disk harrow than by any other method known.

Those farmers who have used the harrow for conserving moisture, and failed, should not blame the harrow for the failure, but the fact that there was no moisture in the ground before they disked. It is the same idea as locking the barn door after the horse is stolen. You cannot conserve moisture if it is not in the ground. If the moisture is in the ground, the use of the disk harrow at the right time to conserve this moisture prevents it from escaping.

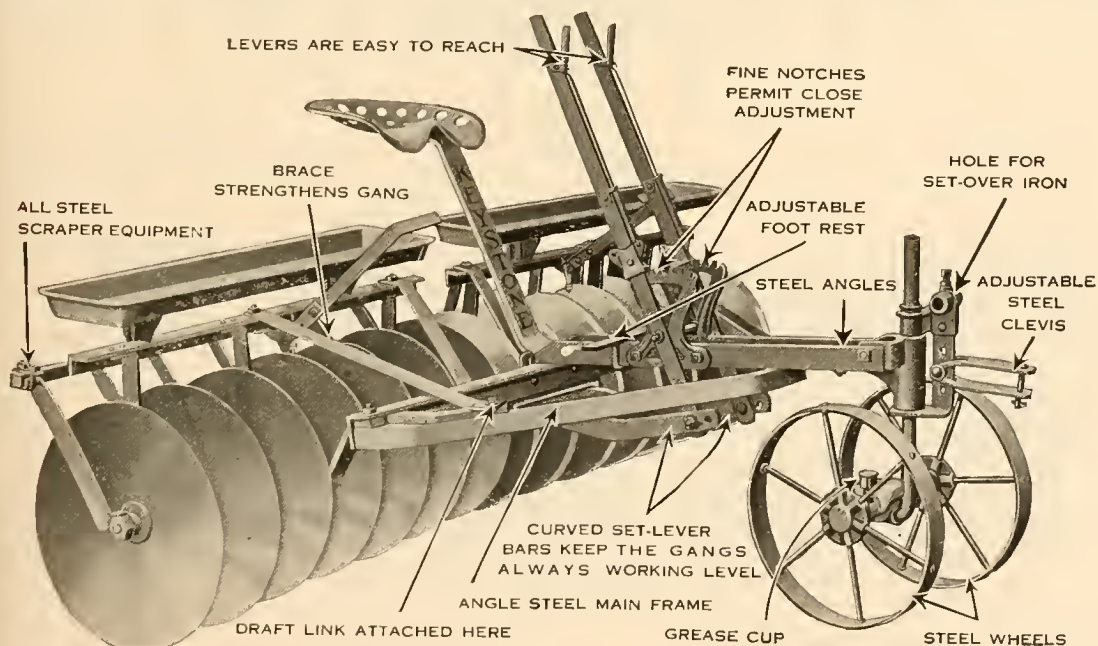
Keystone Disk Harrow

TYPE: The Keystone disk harrow is of the bumper type. This means that all the end thrust is sustained by the bumpers on the inner ends of the gangs, not by the bearings. The disks rolling together on these bumpers necessarily makes less friction than they would if the bearings sustained the end thrust, thus making the harrow lighter in draft.

THE FRAME of the Keystone disk harrow is very strong, being built of a one-piece angle steel bar bent into shape. The cross sills and steel bars for the pole form part of the frame. These parts are securely riveted and bolted. The pole bars support the set lever quadrants. When a forecarriage (See Page 12) is used, it is fastened directly to the pole bars.

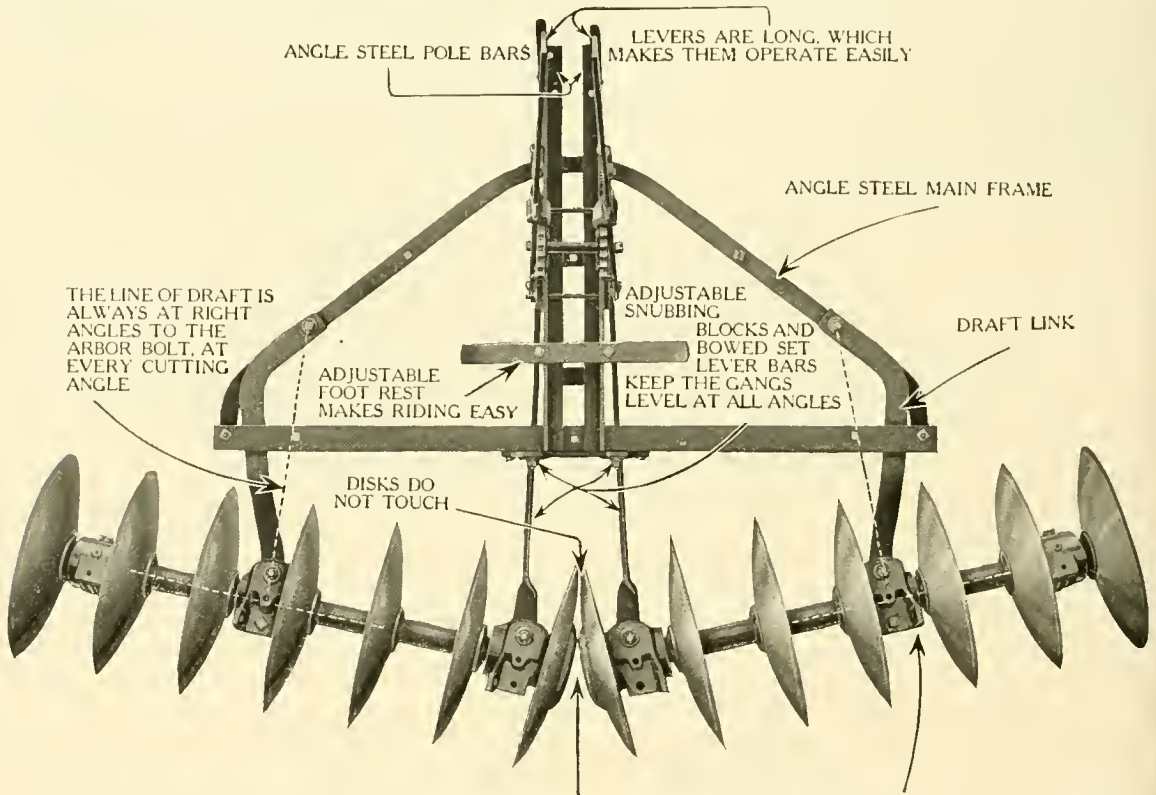
THE GANG FRAMES are angle steel bars supported by steel bearing standards so braced and fastened to the main frame and set lever bars that they are very rigid. These standards are riveted to the gang frame with two rivets and bolted to the bearings with two heavy bolts. These standards and the bearings are so arranged that there is ample clearance on either side. No inconvenience is caused by the catching or accumulation of trash. The angle of the gangs can be changed for any cutting depth desired and held down to their work without impairing the rigid construction. The set lever bars used on the Keystone disk harrow are curved in such a way that they compensate for the circular movement of the end of the set lever. These bars work against a snubbing block which is so arranged that it will take up any looseness or play which may appear due to long use of the harrow.

THE DRAFT LINK is fastened to the main frame at such a point that the draft is always at right angles to the center of the arbor bolt. This will insure that there will be no side pull on the bearing when set at the cutting angle. The shape of the draft link is such that it rests on the main frame, thus securing for itself unusually great strength, due to the support it receives. From the point of attachment of the draft link to the gang frame extends a steel brace.



Keystone disk harrow and forecarriage

Keystone Disk Harrow

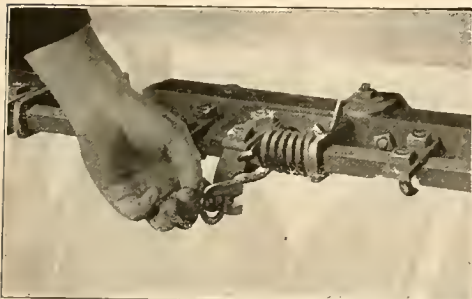


REGARDLESS OF CUTTING ANGLE THE BUMPERS ROLL TOGETHER—RELIEVING BEARINGS OF ALL END THRUST

This view illustrates several points very clearly.

1. The all-steel, solid main frame
2. The shape and point of attachment of the draft links show why the line of draft is always at right angles to the center line of the arbor bolt when the gangs are set at the cutting angle.
3. The manner in which the gangs roll together on their bumpers, relieving the bearings of all end thrust.
4. The adjustable snubbing blocks keep the gangs level.
5. The adjustable foot rest.

The Keystone Disk Harrow Scrapers



The scraper spring tension can be changed without using any tools

The purpose of the scrapers is to keep the disks clean and free from dirt. In a very trashy field or a heavy, sticky soil, it is necessary to keep the disks clean in order to get a better and deeper cultivation. The Keystone scrapers are made of steel, and held to the scraper bar with a steel clip. Each scraper can be renewed or adjusted separately, but they are so arranged that they all rock together. They are of the rocking type, and operated by a foot lever, one for each gang. By operating the foot levers these blades



Steel scraper

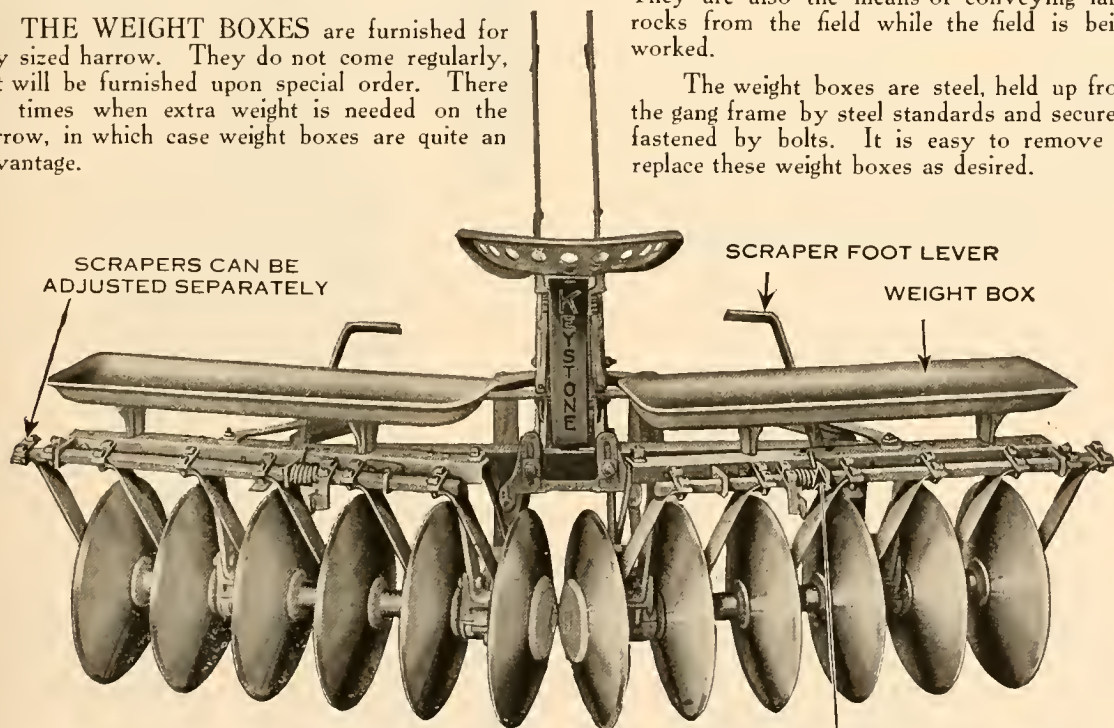
scrape over the entire face of the disk. The normal position of the scrapers is at the center of the disks where they rest without touching. The tension of the scrapers is regulated by a spring which can be adjusted to a light or loose tension.

A bolt is provided which controls the length of the scraper stroke. It also prevents the operator from rocking the scrapers off the disk faces, and prevents too much stress on the foot lever from springing the scraper bar out of shape.

THE WEIGHT BOXES are furnished for any sized harrow. They do not come regularly, but will be furnished upon special order. There are times when extra weight is needed on the harrow, in which case weight boxes are quite an advantage.

They are also the means of conveying large rocks from the field while the field is being worked.

The weight boxes are steel, held up from the gang frame by steel standards and securely fastened by bolts. It is easy to remove or replace these weight boxes as desired.



SCRAPERS CLEAN ENTIRE SURFACE OF DISKS

SPRING REGULATES SCRAPER PRESSURE

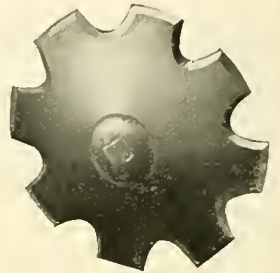
Rear view of the Keystone disk harrow showing scrapers

The Keystone Disks



View of the arbor bolt head, bumper, and inner disk

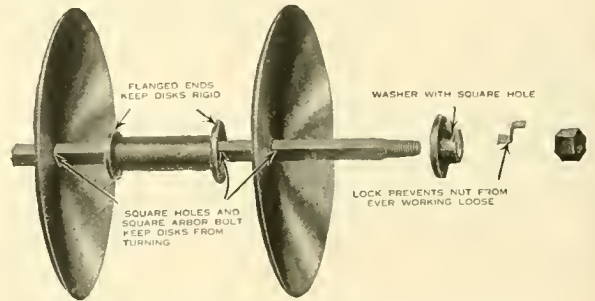
The disks are the most important part of the disk harrow. The Keystone disks have the correct curve, which will not only penetrate, but will thoroughly pulverize the soil. They are straight enough to penetrate hard ground as well as to do good work on soft ground. This is not a happen-chance, but the result of many years of experimenting on the part of the designers of Keystone harrows. This point will appeal to the farmers because they realize that the best work of the disks is being done when the ground is thoroughly pulverized. By careful manipulation of the levers it is possible to control the disk gangs, and to penetrate the ground any depth desired.



View of the cutaway disk—can be had on any harrow (see pages 8 and 11)

QUALITY: The disks are made in the plain, solid, round edge, or the 8-point cut-out types. They are made of a high-grade quality of steel, ground, polished and sharpened.

SIZES: The Keystone solid, round-edge type disks are made 16, 18 and 20 inches in diameter, there being 8, 10, 12, 14, 16, 18 and 20 disks to the harrow which will cut 4, 5, 6, 7, 8, 9 and 10-foot widths respectively. There are two bumper disks, located directly in the center, one on each gang. They are held rigid and given ample support by the arbor bolt head and bumper.



View of the disassembled positive-locking device as applied to the end of the Keystone Bumper disk harrow gangs

THE SPOOLS space the distance between disks and hold them rigid. The ends have extra wide flanges, giving the disks extra support.



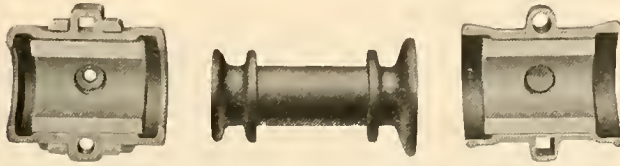
Square arbor bolt prevents disks from turning on it

THE SQUARE ARBOR BOLT is of ample size, thus keeping the disks from turning or slipping. The disks and spool have square holes which fit the arbor bolt. A lock-nut on the outer end of the arbor bolt can be drawn up very snugly. It is provided with a positive-locking device, which prevents any possibility of the nuts becoming loose. On the inner end of the arbor bolt there is a large bumper with ample surface to hold the disk. The bumpers roll together under the pressure of the end thrust of the gang. They act as a reinforcement to the inner disks.

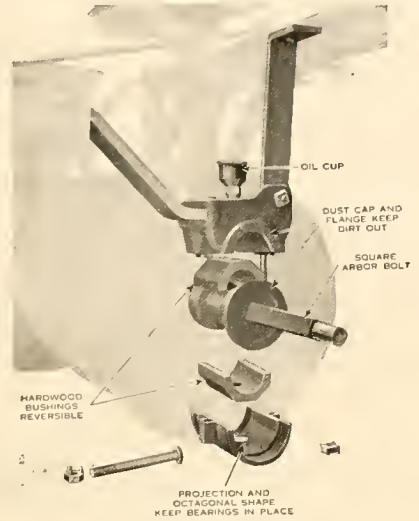
KEYSTONE

The Keystone Bearings

The hard maple, oil-soaked bearings are very durable. They wear well, make light draft, and are more economically renewed than any other kind. They are interchangeable and reversible. Being octagon in shape, they are prevented from turning or becoming loose. A spool revolves inside the bearings, and has a flange to keep the dirt out. (Note illustration.) It is a simple and easy operation to remove them for cleaning or exchange. An oil pocket in the center assists in keeping the oil properly distributed.



Note the octagon bushings, the flange, and the spool to keep dust from working into the bearings



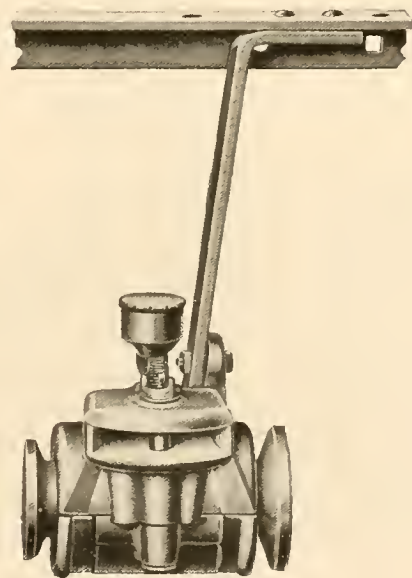
View of disassembled bearing

The Keystone Oiler

The facilities for oiling the Keystone disk harrow are ideal. Oilers are of the hard-oil type, and easy to reach from the rear. The cup is placed exactly over the center of the bearing. It is possible to force new oil into the bushing, thereby forcing the old and worn oil out. This method of oiling has been acknowledged as the best. The bearing standards are made of bar steel and are placed parallel with the disks. This gives the standards sufficient strength to withstand endwise strain, and the most possible clearance space between the disks and standard. The position of the standard is almost in the center between the disks, so there is abundant space on each side to prevent trash from catching on the bearing and standard.



It is easy to grease from the rear of the harrow



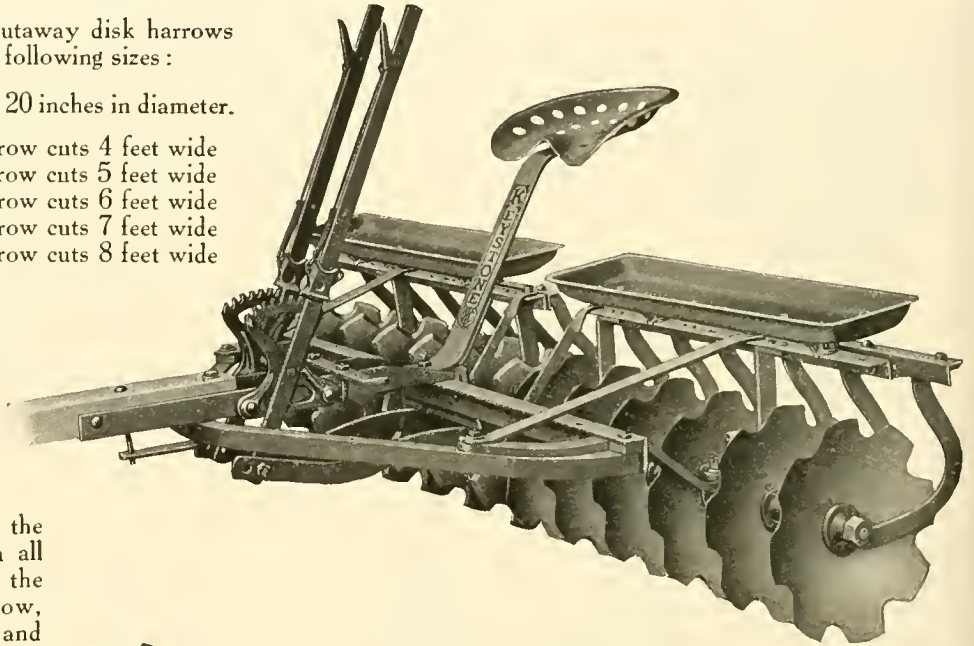
Bearing and standard, showing grease cup

Keystone Cutaway Disk Harrow

Both plain and cutaway disk harrows are furnished in the following sizes:

Disks are 16, 18 and 20 inches in diameter.

The 8-disk harrow cuts 4 feet wide
 The 10-disk harrow cuts 5 feet wide
 The 12-disk harrow cuts 6 feet wide
 The 14-disk harrow cuts 7 feet wide
 The 16-disk harrow cuts 8 feet wide



In construction the cutaway disk is in all respects similar to the regular disk harrow, excepting the disks and scraper. In operation there is no difference; in uses there is some slight difference.

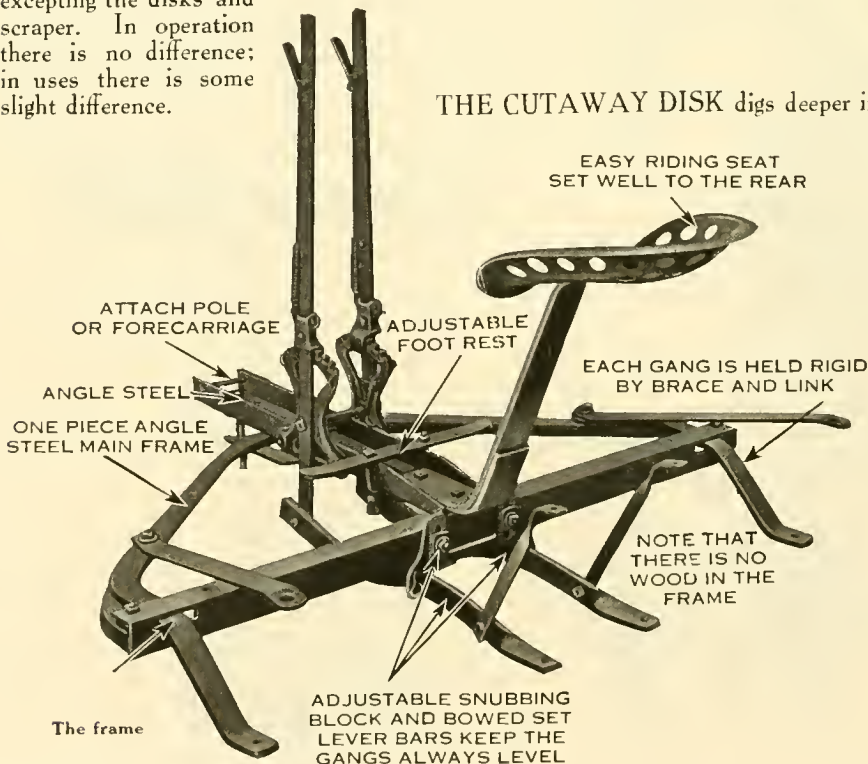
THE CUTAWAY DISK digs deeper into the ground than the plain disk, and is especially valuable in the heavier soils. A great many farmers use both types.

THE DISKS are made of special steel, ground, polished, and sharpened.

THE SCRAPERS are of special design. They can be adjusted to meet various conditions. They are made of steel and prevent dirt or trash from accumulating on the disks.

THE TRUCK can be used, if so desired.

THE FORECARRIAGE and the tandem attachment can be used on this harrow.

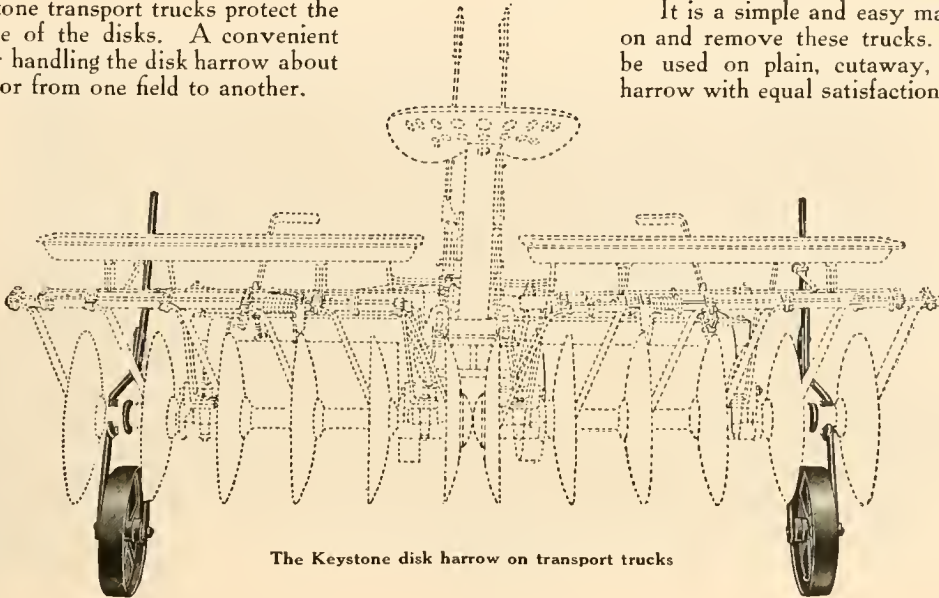


KEYSTONE

Disk Harrow Transport Trucks

Keystone transport trucks protect the sharp edge of the disks. A convenient device for handling the disk harrow about the shed, or from one field to another.

It is a simple and easy matter to put on and remove these trucks. They can be used on plain, cutaway, or tandem harrow with equal satisfaction.



The Keystone disk harrow on transport trucks

Every farmer desires to keep the edges of the disk harrow sharp. A pair of transport trucks elevate the disks from the ground, thereby protecting the edges from rocks or hard surfaces. The trucks not only protect the disks, but prevent cutting up of roads and fields.

TO APPLY: Slip them under the gangs from the rear. Catch the jaws under the spools; lift up from the front of the gangs; handles are latched to the bar on the gang frame with a hook.

THE WHEELS are 16 inches high, with $2\frac{1}{2}$ -inch oval tires.

THE OIL CUP is placed between the spokes where there is no danger of it being damaged or broken off. It has a dust-proof cap.

THE ILLUSTRATIONS shown on this page will give you a splendid idea of how these transport trucks operate.

These trucks are furnished in pairs; only when ordered and at an additional price.



One of the Keystone transport trucks



It takes but a few moments to apply the transport trucks, which are a great protection to the disks when traveling over stony roads

Keystone Tandem Attachment Disk Harrow



Double disk your ground at one operation

SEED BED: The front section breaks the ground and throws the soil outward, while the second or rear section is an inthrow, leaving the soil in a level, finely cultivated condition. By using the double disk harrow the ground is given a double disk at one operation, the chief advantage being in the quick action that the rear section gives the soil following the front. To the farmer who desires to prepare an excellent seed bed in the quickest and best possible manner, the Keystone double or tandem disk harrow is recommended.

EQUIPMENT: The front section can be furnished in the plain or cutaway disk. The cutaway disk will be furnished on the front section if so desired. It is a simple and easy matter to detach the rear section from the front. Should you have a regular Keystone disk harrow, and want to equip it with a tandem attachment, you can do so by buying the attachment and the connections necessary to fasten it to the front harrow.

SIZES: The tandem or rear attachment is furnished on the 5, 6, 7, or 8-foot cuts, having a 16-inch diameter disk, with eight cutaway notches on each disk. The 18 and 20-inch disk is also made.

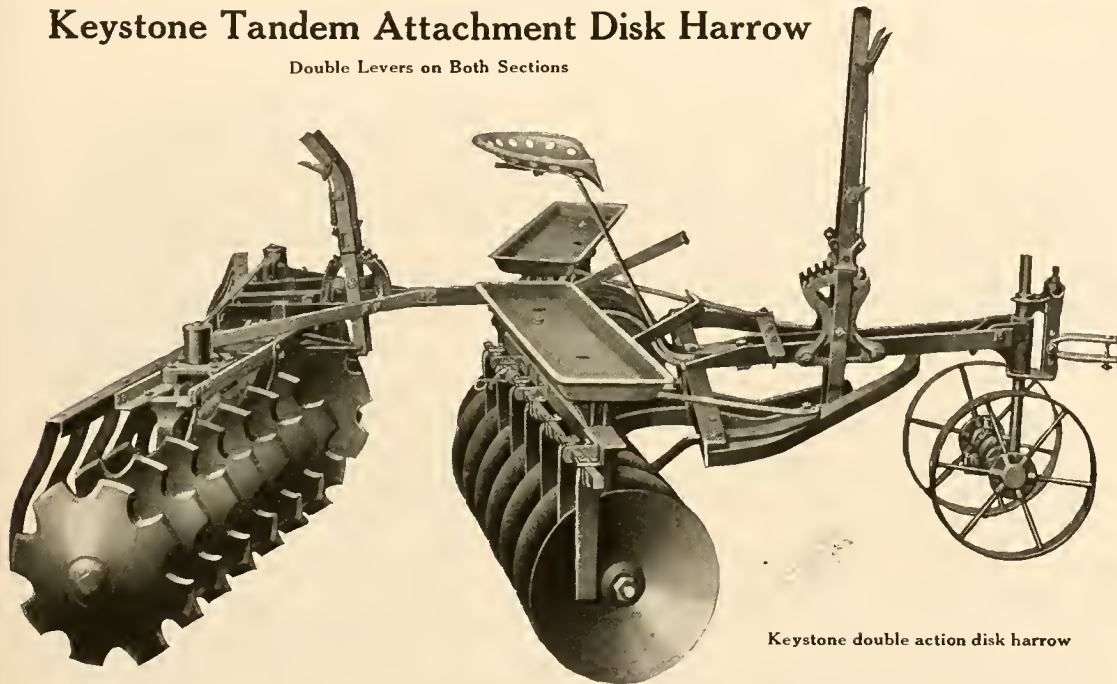
STURDY: The rear attachment is built sturdy and compact. The gangs are held level at all times by the help of a strip of iron over a cross bar loop of steel. This insures even cultivation. This section of the harrow is built entirely of steel.

SCRAPERS made of steel, designed so that they thoroughly clean the disks, are furnished in localities where needed, as an extra, at an additional price.

LEVERS: There are two levers on the rear attachment. They are within easy reach of the operator.

Keystone Tandem Attachment Disk Harrow

Double Levers on Both Sections



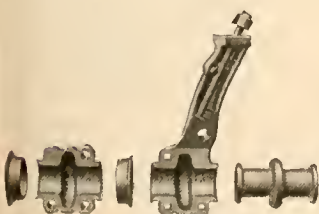
Keystone double action disk harrow

THE BEARINGS: The rear attachment being inthrow has somewhat different bearings from those on the front harrow. A single projection around the center on the spool removes the end thrust from the ends of the bearings. These spools are made of hard iron and run in a chilled bearing. The oil pipes extend from the top of the bearing standards down to the bearings, and open into a groove in the center. The oil is permitted to spread over every part of the bearings. When properly oiled these bearings will not wear out. The oil pipes are easy to reach.

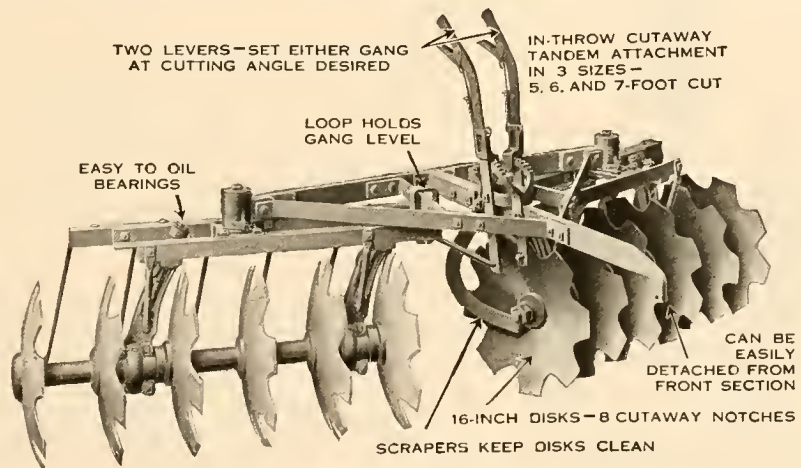
THE FORECARRIAGE. (See Page 12.) Furnished on special order at an additional price.

THE TRANSPORT TRUCKS: (See Page 9.) Are furnished when ordered at an additional price.

The Most Durable Disk Bearing Ever Designed



Oil pipe reaches to the top of bearing standard, center projection on spool removes end thrust from ends of bearing.



Tandem or rear attachment for use with the Keystone disk harrow

Keystone Disk Harrow Forecarriage

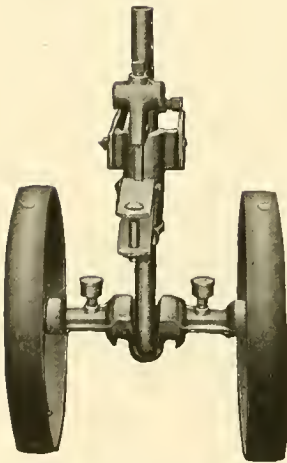


It saves the team and is easier for the operator

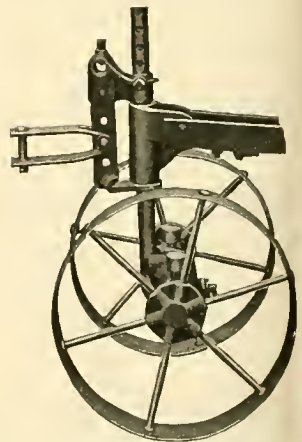
The Keystone disk harrow forecarriage or tongue truck is simple, compact, and strong.

USES: By using the forecarriage the driver has better control of the disk harrow, because the harrow will run steady and in a line. By its use the harrow can be made to work close to the fence and into the corners. The pole can be dispensed with. Very few farmers would operate a disk harrow without a forecarriage after having given it a trial.

ADJUSTMENTS: The Keystone forecarriage can be adjusted so as to fit any size disk harrow or team and still have the line of draft such that the forecarriage wheels will just set to the ground enough to keep the disk harrow working perfectly. The frame can be raised or lowered to several different heights.



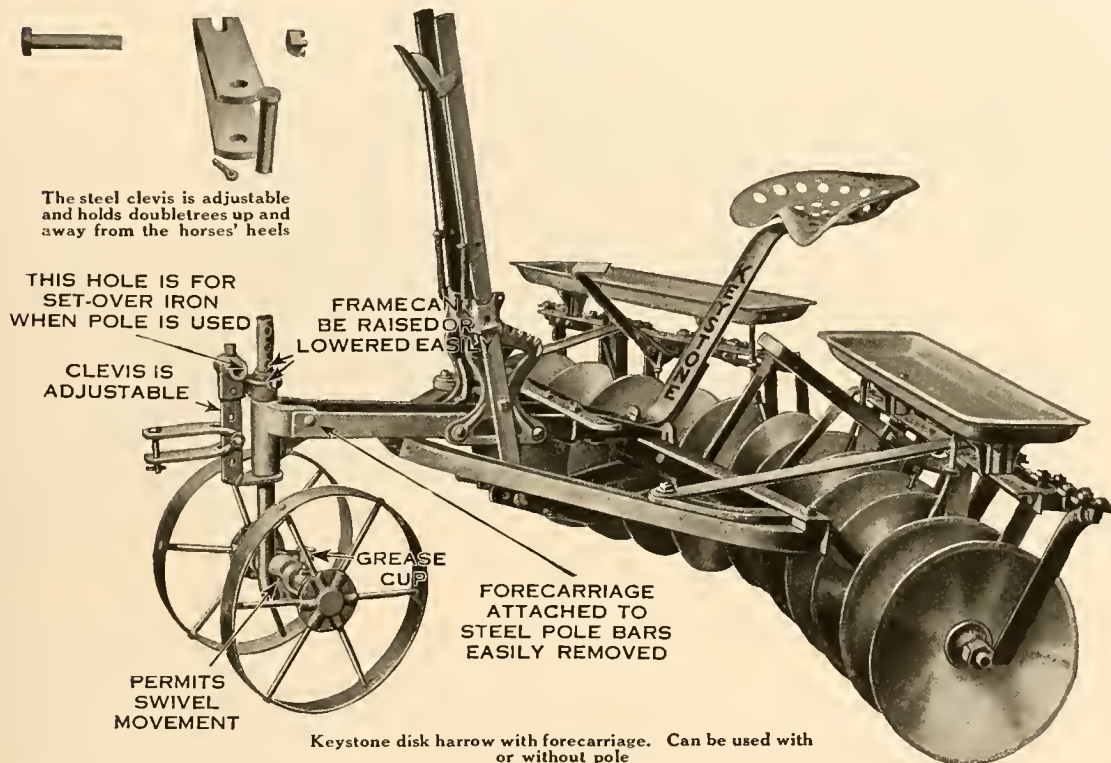
Front view of the forecarriage arranged for use without a pole. This view shows very clearly how the wheels are swiveled to follow the unevenness of the ground



Side view

Note the adjustments for clevis and disk frame, also the oil cups

Keystone Disk Harrow Forecarriage



THE CLEVIS can be set at different heights. It is made of steel and so arranged that it holds the doubletrees up from the ground. It also holds the doubletrees away from the horses' heels.

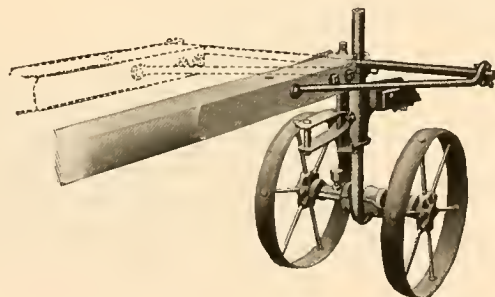
THE WHEELS are made of solid steel, with wide oval tires, steel spokes and hubs.

THE GREASE CUPS are of the hard oil type, one on each side of the standard. They are dust proof. By screwing down the top, new oil is forced into the bearings.

THE POLE can be used, if desired, but the forecarriage works equally as well without it. When breaking in a new horse or team, the driver may want to use the pole. If so, it is possible to set the pole in the center for two or four horses, and by shifting the pole to the right or left three horses can be used. (Note the illustration showing the pole adjustments.)

If you now have a disk harrow and wish to add a forecarriage, this can be done without the necessity of buying an extra pole, as the forecarriage is attached direct to the steel pole bars of the Keystone disk harrow.

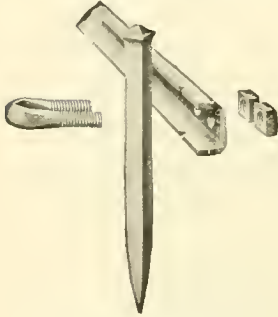
THE AXLE is pivoted in the center. Either wheel will pass over an obstacle or drop into a rut without strain. Heavy round steel is used in the axle. The Keystone forecarriage will fulfill every requirement of the disk harrow user.



Illustration—showing pole set straight for two or four horses. For three horses, loosen set screw and slide shaft as indicated by dotted lines, then secure with set screw

Keystone Peg-Tooth Harrow

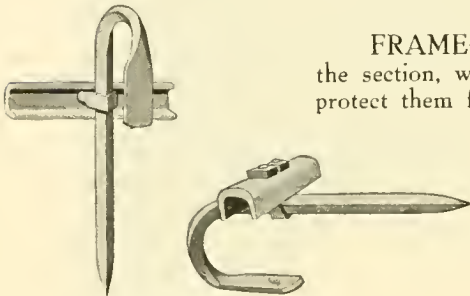
The peg-tooth harrow is one of the most useful of farm implements. The Keystone peg-tooth harrow will interest the farmer because it is made in such a way that it is capable of giving long service and doing the work for which it is made.



This view shows why the teeth never work loose

SIZES: The Keystone is made in the 25, 30, and 35-tooth sections. As many sections as desired can be fastened together, enabling the farmer to cultivate any width.

TEETH: The teeth are diamond shaped and of sufficient length to give ample clearance underneath. The $\frac{1}{2}$ inch teeth are made square. These teeth are securely held to the U bars by steel clips. After the teeth have become worn by constant use, it is a simple matter to reverse them, replace them with new ones, or slip them down. The heads are upset which prevents them from slipping through the clip. Each section is provided with four runner teeth, which act as a transport for the harrow.



Runner teeth act as transports

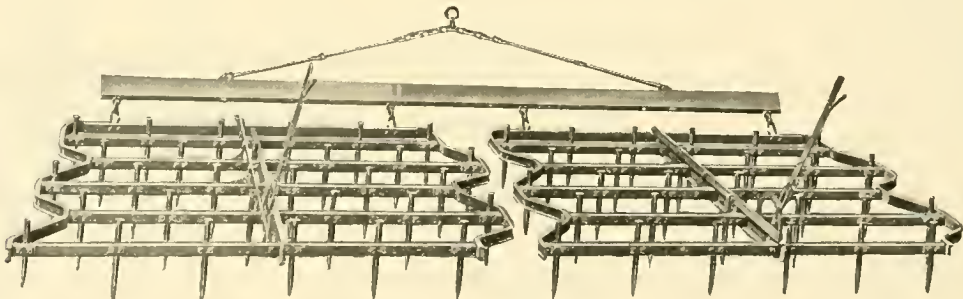
FRAME: The center bars brace the U bars through the middle part of the section, while the zig-zag bars not only hold the tooth bars at the end, but protect them from damage when coming in contact with stumps, stones, etc. They also aid in preventing an accumulation of trash on the harrow.

LEVERS: The levers are long, and convenient to the driver. The teeth can be slanted to any angle while the harrow is at work. The slip ratchet makes this operation easy. The slip notches are close together.

Keystone harrows are furnished in the following sizes: 25, 30, and 35-teeth to the section:

1 Section	25-tooth cuts	4 feet, 0 inches
2 Section	25-tooth cuts	8 feet, 4 inches
3 Section	25-tooth cuts	12 feet, 7 inches
4 Section	25-tooth cuts	16 feet, 11 inches
1 Section	30-tooth cuts	4 feet, 10 inches
2 Section	30-tooth cuts	10 feet, 1 inch

3 Section	30-tooth cuts	16 feet, 1 inch
4 Section	30-tooth cuts	21 feet, 5 inches
1 Section	35-tooth cuts	5 feet, 9 inches
2 Section	35-tooth cuts	11 feet, 10 inches
3 Section	35-tooth cuts	17 feet, 11 inches
4 Section	35-tooth cuts	24 feet, 0 inches



Keystone peg-tooth harrow

The Keystone Harrow Sulky



The Keystone riding sulky saves many miles of tired steps.

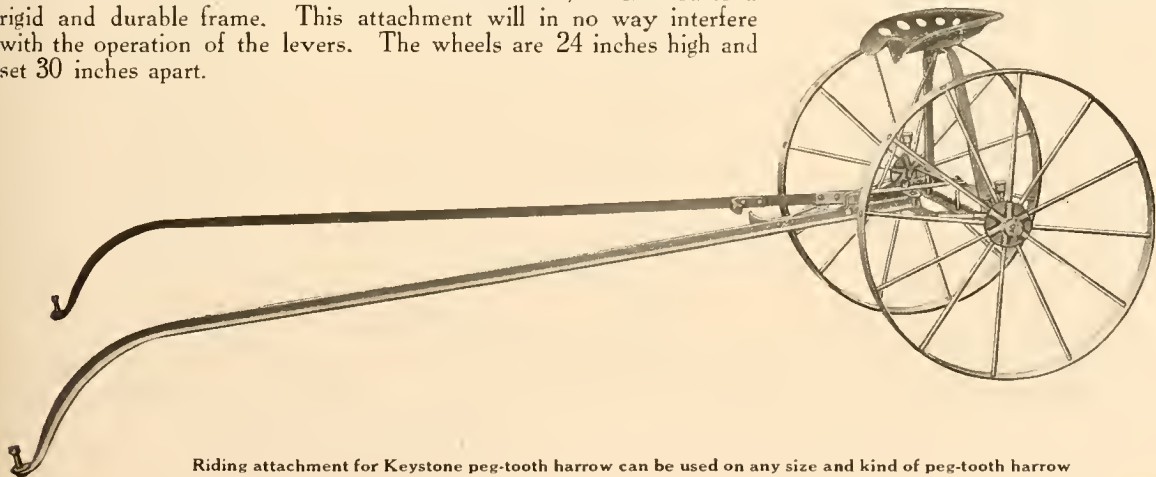
The Keystone peg-tooth harrow sulky can be used on any size and kind of harrow.

It will save many tired steps and prove very valuable to the farmer who has to depend upon help. The driver will stay in the field longer and take more care in the work.

The seat is comfortable, and the wheels being of large diameter, assure its being light in draft. The tires are of the three-inch, concave type. The spokes are staggered and are moulded into the hub.

The oilers are of the force-feed, hard oil type. By screwing the cap down, oil is supplied to all parts of the bearings.

The sulky is made entirely of angle steel, bar steel, and malleable iron. The swivel device permits the sulky wheels to pivot simultaneously when the harrow is turning a corner. This construction is well suited to hillside work. The bars and braces are riveted, which insures a rigid and durable frame. This attachment will in no way interfere with the operation of the levers. The wheels are 24 inches high and set 30 inches apart.



Riding attachment for Keystone peg-tooth harrow can be used on any size and kind of peg-tooth harrow

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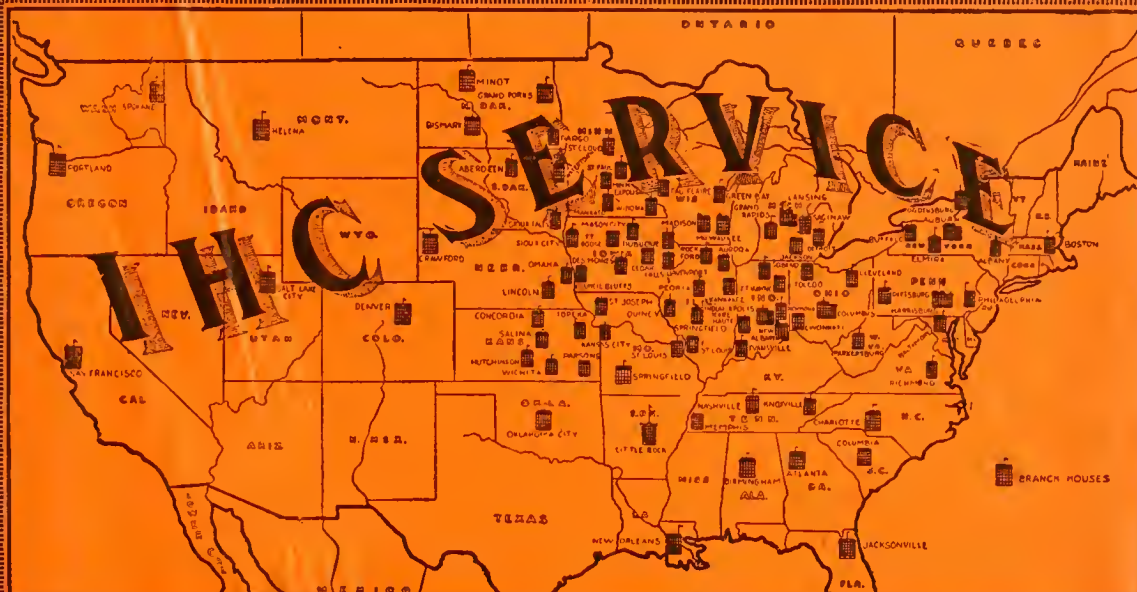


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